

Basic Skills Quiz

1. Calculate:

a. $(-6) \div (-2)$

b. $(-8) \times 7$

c. $7 - (-3)$

d. $-7 - 3$

e. $4 - 14$

f. $-8 + 20$

2. Simplify $\frac{10}{15}$

3. Write $\frac{24}{5}$ as a mixed fraction.

4. Write $2\frac{2}{3}$ as an improper fraction.

5. Simplify $\frac{1}{9} - \frac{2}{9}$

6. Simplify $-\frac{13}{10} - \frac{2}{10}$

7. Simplify $\frac{1}{4} - \frac{7}{10}$

8. Simplify $\frac{3}{4} + \frac{3}{10}$

9. Simplify $\frac{2}{3} - 3$

10. Simplify $\frac{-7}{4} \times \frac{2}{5}$

11. Simplify $\frac{2}{5} \div 2$

12. Evaluate $2(-3)^2 + 6$

13. Evaluate $3^{2(4)-6}$

14. Evaluate $\frac{-4 - (-6)}{-4 - (-2)}$

15. Evaluate $\frac{-3(-3+2)^2}{(-2)+5}$

16. Simplify $(-3x^6)(4x^7)$

17. Simplify $(2x^5)^3$

18. Simplify $\frac{-20y^{13}}{4y^7}$

19. Subtract $(-3n^2 + 8) - (5 - 7n^2)$

20. Add $(5r^2 + 5r - 5) + (-7r^2 - 8r + 2)$

21. Solve the equation $-5x - 1 = 19$

22. Solve the equation $\frac{x}{-4} - 6 = 16$

23. Solve the equation $11 - 3x = 4x - 10$

24. Solve the equation $\frac{1}{z} = \frac{2}{3}$

25. Solve the equation $3(4x - 3) = 2(3x + 10)$
